



Office of Research and Development
National Health and Environmental Effects Research Laboratory
Mid-Continent Ecology Division (MED)

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(revised 06/15/01)

EDUCATION

<u>Degree</u>	<u>Year</u>	<u>Major</u>	<u>Institution</u>
M.A.	1991	Biology	Bemidji State University
B.A.	1971	Biology	University of Minnesota-Duluth

EXPERIENCE

Research Fisheries Biologist

<u>Dates</u>	<u>Employer</u>
1995 - 1996	U. S. Environmental Protection Agency 6201 Congdon Blvd. Duluth, MN

Brief Description of Position: Conduct research in coastal wetlands to determine reference conditions and preferred habitat of adult, juvenile, and larval fish. Also examine energy transfer between fish in coastal wetlands and Lake Superior.

Research Aquatic Biologist

<u>Dates</u>	<u>Employer</u>
1986 - 1994	U. S. Environmental Protection Agency 6201 Congdon Blvd. Duluth, MN

Brief Description of Position: Conduct field research using enclosures to determine primary and secondary effects of pesticides to bluegills in a natural ecosystem.

Chemist

<u>Dates</u>	<u>Employer</u>
1974 - 1986	U. S. Environmental Protection Agency 6201 Congdon Blvd. Duluth, MN

Brief Description of Position: Analyze water, sediment, and tissues for pesticides using gas chromatography.

Physical Science Technician

<u>Dates</u>	<u>Employer</u>
1972 - 1974	U.S. Environmental Protection Agency Shagawa Lake Project Ely, MN

Brief Description of Position: Analyze water and wastewater for phosphorus, nitrogen, silica, chloride, sodium, potassium, TOC, TIC, magnesium, and other necessary parameters.

PUBLICATIONS

Peer-Reviewed Journals

Brazner, J.C., D.K. Tanner, and J.A. Morrice. 2001. Fish-mediated nutrient and energy exchange between a Lake Superior coastal wetland and its adjacent bay. *Intl. Assoc. Great Lakes Res.* 27:98-111.

Tanner, D.K., J.C. Brazner, and V.J. Brady. 2000. Factors influencing carbon, nitrogen, and phosphorus content of fish from a Lake Superior coastal wetland. *Can. J. Fish. Aquat. Sci.* 57:1243-1251.

Tanner, D.K., E.N. Leonard, and J.C. Brazner. 1998. A modified microwave method for phosphorus determination. *Limnol. Oceanogr.*

Brazner, J., D.K. Tanner, D.A. Jensen, and A. Lemke. 1997. Relative abundance and distribution of ruffe (*Gymnocephalus cernuus*) in a Lake Superior coastal wetland fish assemblage. *J. Great Lakes Res.* 24:293-303.

Moffett, M. F. and D.K. Tanner. 1996. Indirect effects of diflubenzuron on introduced young-of-the-year bluegill and indigenous fish in littoral enclosures. *Ecotoxicology* (in preparation).

Tanner, D. K. and M. L. Knuth. 1996. Effects of esfenvalerate on the reproductive success of bluegill sunfish, *Lepomis macrochirus*, in littoral enclosures. *Arch. Environ. Contam. Toxicol.* 31:244-251.

Tanner, D.K. and M. L. Knuth. 1995. Effects of Azinphos-methyl on the reproductive success of the bluegill sunfish, *Lepomis macrochirus*, in littoral enclosures. *Ecotoxicol. Environ. Saf.* 32:184-193

Tanner, D.K. and M.F. Moffett. 1995. Effects of diflubenzuron on the reproductive success of the bluegill sunfish, *Lepomis macrochirus*. *Environ. Toxicol. Chem.* 14:1345-1355.

Jarvinen, A.W., D.K. Tanner, and E.R. Kline. 1988. Toxicity of chlorpyrifos, endrin, or fenvalerate to fathead minnows following episodic or continuous exposure. *Ecotoxicol. Environ. Saf.* 15:78-95.

Jarvinen, A.W., D.K. Tanner, E.R. Kline, and M.L. Knuth. 1988. Acute and chronic toxicity of triphenytin hydroxide to fathead minnows (*Pimephales promelas*) following brief or continuous exposure. *Environ. Pollut.* 52:289-301.

Kleiner, C.F., R.L. Anderson, and D.K. Tanner. 1984. Toxicity of fenitrothion to fathead minnows. (*Pimephales promelas*) and alternative exposure duration studies with fenitrothion and endosulfan. *Arch. Environ. Contam. Toxicol.* 13:573-578.

Spehar, R.L., D.K. Tanner, and B.R. Nordling. 1983. Toxicity of the synthetic pyrethroids, permethrin, and AC222,705 and their accumulation in early life stages of fathead minnows and snails. *Aquat. Toxicol.* 3:171-182.

Eaton, J.G., V.R. Mattson, L.H. Mueller, and D.K. Tanner. 1983. Effects of suspended clay on bioconcentration of kelthane in fathead minnows. *Arch. Environ. Contam. Toxicol.* 12:439-445.

Holcombe, G.W., G.L. Phipps, and D.K. Tanner. 1982. The acute toxicity of kelthane, dursban, disulfoton, pydrin, and permethrin to fathead minnows (*Pimephales promelas*) and rainbow trout (*Salmo gairdneri*). *Environ. Pollut.* 29A:167-178.

Jarvinen, A.W. and D.K. Tanner. 1982. Toxicity of selected controlled release and corresponding unformulated technical grade pesticides to the fathead minnow (*Pimephales promelas*). *Environ. Pollut.* 27A:179-195.

Peer-Reviewed Book Chapters/Symposium Proceedings

Spehar, R.L., D.K. Tanner, and J.H. Gibson. 1982. Effects of kelthane and pydrin on early life stages of fathead minnows (*Pimephales promelas*) and amphipods (*Hyalella azteca*). In: *Aquatic Toxicology and Hazard Assessment: Fifth Conference*. ASTM STP 766. Pearson, J.G., R. Foster, and W.E. Bishop (Eds.). American Society for Testing and Materials, Philadelphia, PA. pp. 234-244.

EPA Reports

Tanner, D.K. 1991. Bluegill reproduction success in littoral enclosures. EPA 600/X-91/019. Environmental Research Laboratory-Duluth, Duluth, MN.

Siefert, R.E., S.J. Lozano, M.L. Knuth, L.J. Heinis, J.C. Brazner, and D.K. Tanner. 1990. Pesticide testing with littoral enclosures. In: *Proceedings for North American Benthological 1990 Meeting*. EPA 600/D-90/064.

INVITED PRESENTATIONS

Snarski, V.M., N.E. Detenbeck, S.L. Batterman, J.D. Brazner and D.K. Tanner. 2001. Determining the influence of landscape and reach-specific habitat variables on variation of thermal characteristics of streams within western Lake Superior watersheds. 34th Annual Meeting of the American Fisheries Society, MN Chapter, Fargo, ND, March 5-7.

Tanner, D.K. and J.C. Brazner. 2001. Evaluation of fish sampling designs for coastal wetlands. Bioassessment of Wetlands Workshop, Kalamazoo, MI. February 13

Brazner, J.C., D.K. Tanner, V.M. Snarski, and S.L. Batterman. 2001. The influence of forest fragmentation and other environmental factors on Lake Superior stream fish assemblages. Annual Meeting of American Fisheries Society, WI Chapter, Superior, WI, January 10.

Detenbeck, N.E., J.C. Brazner, S.L. Bertelsen, V.M. Snarski, D.K. Tanner, D.L. Taylor, and J.A. Thompson. 1997. Lake Superior comparative watershed study: A framework for evaluating the impacts of forest fragmentation on north and south shore streams. Midwest Fish and Wildlife Conference, Milwaukee, WI, December 67-10.

Brazner, J.C., D.K. Tanner, and D.A. Jensen. 1997. Seasonal abundance and distribution of ruffe (*Gymnocephalus cernuus*). IAGLR 1997, Buffalo, NY, June 1-5.

Moffett, M.F. and D.K. Tanner. 1993. An introduction of larval bluegill to littoral enclosures and responses to the pesticide diflubenzuron. SETAC Annual Meeting, Houston, TX, November.

Moffett, M.F. and D.K. Tanner. 1993. Indirect effects of a pesticide on fish in littoral enclosures. Ecological Society of America Annual Meeting.

FIRST AUTHOR ABSTRACTS

Tanner, D.K. and M.F. Moffett. 1993. Effects of the insect growth regulator diflubenzuron on the reproductive success of bluegill sunfish (*Lepomis macrochirus*). SETAC Annual Meeting, Houston, TX, November.